## PROJECT 10073 RECORD CARD

1. DATE  15 July 1963  3. DATE-TIME GROUP  Local  GMT_15/1206Z  5. PHOTOS	2 LOCATION  22.02N 117.00E  4. TYPE OF OBSERVATION  Ground-Visual  XX BX  D Air-Visual  6. SOURCE	(FAR-EHST)  N Ground-Rador  D Air-Intercept Rador	12. CONCLUSIONS  Was Balloon Probably Balloon Possibly Balloon Probably Aircraft Probably Aircraft Possibly Aircraft Was Astronomical
D Yes	Military	D Probably Astronomical D Possibly Astronomical	
7. LENGTH OF OBSERVATION 6 minutes	one	9. COURSE	Other Sattellite ECHO I Insufficient Data for Evaluation Unknown
White object size of 1st man high speed and high altitude in flight from 60 deg elevator 20 deg elevation 140 deg to be Satellite.	le observed for 6 min	at 35.90 long: would be cross heading S at 1 the Satelllite	crossed equator itude at 1210Z ECHO sing the equator 131 degE. This places e in position for t the reported time. d as ECHO I.

ATIC FORM 329 (REV 26 SEP 52)

AND THE COMMENT OF THE PROPERTY OF THE PROPERT

MAAMT MES	JURG	UNU	F149914 1EM	的問題	UCPARI	MEN
PRIORITY	(ACTION)	RELEASED BY	D	RAFTED BY		EXT. NO.
PRIORITY	(INFO)					
	A)	F IN: 392	221 (15 Jul (	63)R/joe		
P. 1514202 FM USS MARSH	ALL AF I	DIST: NIN-	-9, XOP-1, XO -CÍIC-3 (45)	OPX-4, SAFO	S-3, DIA-25	With the same of t
TO RUMAL C/CL	ARK AFB		Served Mid To 1			
INFO RUECW/C COMSEVENTHEL CTF 72 COMDESTION 7	THE RESERVE OF THE PROPERTY OF		CINCPACE COMNAVPH CTG 72.1 COMDESEL	IL		
EFTO	E	FTO			EFTO	
UNCLAS EFTO						
A. CINCPACEL	I INST 382	0.3				
UNIFORM FOXTE	The same of the same	o - Judik Balana				
D. NONE E. NONE	FEARING 16 BEARING 14 COURSE 140 ES	TO STARS DEG DEG DEG	HIGH ALTITUE		35.9°	
ECNAV 00 09 COGAT	RD CIA NIC	M 03 33 34 NAVAIDE FI	35 05 06 07 LAGPLOT BFR		P JCS CSA	
52 66 / JRC JB	B249	1 2		15 JUL	151420Z	
		IIMC	ACCIFIED			

BULL GAR BAR	001102	•		EXT. NO.
		RELEASED BY	DRAFTED BY	
	(INFO)			

4. A. 15 12 06Z

B. NIGHT

5. 22 DEG OZ MIN NORTH, 117 DEG OO MIN EAST

6. A. NEGAT

B. HOPPER, H.K. CDR USN, COMMANDING OFFICER AND BUTLER, C.P.

LTJG U NR, OFFICER OF THE-POSITIVE RELIABILITY

7. A. CLEAR

B. NONE

C. UNLIMITED

D. UNLIMITED E. ONE EIGHTM

F. NONE

8 UNKNOWN

11. COMMANDING OFFICER-BELIEVED TO BE SAATELITE

12 . NONE

				05576	AGES   TIME OF RECEIPT	DATE TIME GROUP	
CONTROL NO.	CIRCUIT NO.	PAGE	OF	PAGES	TIME OF RECENT		
		12	-	2		15 14207 117 53-	
96256		1 -					

UNCLASSIFIED

		ι λ		
ECUATOR	SATELLITE 1960 TOTA 1 FOR OTHER LATET	toes V	SATELLITE 1960 IOTA 1	
S-N ICAG. LA	SCUTH-NORTH	NORTH-SCUTH S-N	N COUTH HORTE	
(LT) (W)	cron contract the	COPR. CCRR. (MI) (N-E) (UT)	LENG. LAT TIME LONG UT OFFICE THE NEXTH-SUU	17.
	JULY 14, 1963		JULY 18, 1963	
6 32.9 319.33 15. 8 27.9 348.43 36.	. C 21.6 -61.07 673 12.2 -0 17.9 -45.81 668 60.7 -0 15.1 -36.15 672 54.0 -0 12.7 -28.78 680 49.4 .0 8.3 -17.41 706 43.7 . C. 0. 787 39.9 . C -8.6 17.32 899 43.60 0 -13.5 28.57 968 49.30 -0 -16.2 35.86 1002 53.50 .0 -19.5 45.41 1040 60.60 0 -23.9 60.50 1087 72.20	-43.3 129.09 1152 126.2 17 55.4	276.32       45.0       21.9       -61.00       669       72.2       31.4       -105.52       6         305.42       40.0       18.2       -45.74       67E       60.7       35.2       -120.77       7         334.53       35.0       15.4       -36.08       691       54.0       38.1       -130.41       7         3.63       30.0       12.9       -2E.71       707       49.4       40.6       -137.75       7         32.73       20.0       8.5       -17.37       747       43.7       45.2       -145.06       8         61.84       0.       0.       0.       0.       847       39.9       53.9       -166.35       9         90.54       -20.0       -8.9       17.26       966       43.6       -52.0       147.34       10         120.04       -30.0       -13.8       28.48       1029       49.3       -46.9       136.17       11         149.14       -35.0       -16.7       35.75       1061       53.9       -43.9       128.92       11         178.25       -40.0       -20.0       45.28       1094       60.6       -40.6       119.41       11	28 47 60
	JULY 15, 1963		JULY 19, 1963	
11 13.6 35.50 20. 13 13.6 65.67	.0 21.7 -61.06 67C 72.2 .0 17.9 -45.75 669 6C.7 .0 15.1 -36.13 675 54.C .0 12.7 -28.76 686 45.4 .0 8.3 -17.40 715 43.7 - 0. C. 802 35.9 .0 -8.7 17.31 917 43.60 .0 -11.6 28.14 567 49.31 .0 -15.4 35.83 1616 53.90 .0 -24.0 6C.46 1099 72.20	31.2 -105.56 720 107.8. 3 30.5 35.1 -12C.80 755 119.3. 7 20.6 38.0 -13C.43 787 126.0. 7 20.6 40.5 -137.76 817 130.6. 9 15.7 45.2 -149.05 877 136.3. 11 10.7 54.2 -166.30 973 140.2 13 5.7 -51.6 147.43 1094 136.5 15 0.8 -46.4 136.28 1133 13C.8 16 55.8 -46.4 136.28 1133 13C.8 18 50.5 -40.1 115.53 1157 119.4	294.66 45.0 22.0 -6C.98 671 72.2 31.5 -1C5.50 6 323.76 4C.0 18.2 -45.71 683 6C.7 35.3 -120.75 7 352.86 35.0 15.4 -36.06 699 54.0 38.1 -130.39 7 21.96 30.0 13.0 -28.70 717 49.4 4C.6 -137.74 7 51.06 2C.0 8.5 -17.35 760 43.7 45.2 -149.06 8 80.17 C. C. 863 37.7 53.9 -160.37 9 109.27 -26.0 -8.9 17.25 982 43.6 -52.1 147.31 10 138.37 -30.0 -13.9 28.45 1044 49.3 -47.0 136.13 10 167.47 -35.0 -16.8 35.72 1075 53.9 -44.1 178.08 11 196.57 -40.0 -20.1 45.25 1105 6C.6 -4C.7 119.37 11	40
	HULY 16, 1963		JULY 20, 1963	
0 24.1 356.15 20.10 10 19.1 25.15 20.12 14.2 54.25 6.16 4.3 112.46 -30.17 59.3 141.57 -35.19 54.4 170.67 -40.21 49.4 199.77 -45.23 44.4 228.88 -47.	.0 17.8 -75.75 692 49.4 .0 17.8 -75.75 692 49.4 .0 8.4 -17.39 725 43.7 .0 0. 0. 816 39.9 .0 -8.7 17.29 933 43.6 .0 -13.7 28.52 998 49.3 .0 -16.5 35.80 1032 53.9 .0 -17.7 45.34 1068 60.6 .0 -24.2 60.43 1110 72.2	11.5 -105.55 711 107.8 2 31.0 15.1 -120.79 745 115.30 4 26.0 18.0 -130.42 774 126.00 6 16.1 40.5 -137.76 003 130.60 10 11.1 45.2 -149.06 861 136.30 12 6.2 -51.8 147.40 1083 136.5 14 1.2 -40.6 136.24 1125 130.8 17 51.3 -43.6 129.00 1142 126.2 17 51.3 -40.2 119.49 1155 119.4 21 46.3	283.88 45.0 22.1 -60.95 673 72.2 11.6 -105.47 6 312.98 40.0 18.3 -45.69 609 60.7 35.3 -120.73 7 347.08 35.0 15.5 -36.04 707 54.0 38.2 -130.37 7 11.18 30.0 13.1 -28.68 727 49.4 40.7 -137.73 7 40.29 20.0 8.6 -17.34 772 43.7 45.2 -145.05 7 69.39 0. 0. 879 39.9 53.9 -166.37 9 98.49 -20.0 -9.0 17.23 998 43.6 -52.2 147.29 10 127.59 -30.0 -14.0 28.43 1057 49.3 -47.1 136.11 10 156.69 -35.0 -16.9 35.69 1087 53.9 -44.2 128.85 11 185.79 -40.0 -20.2 45.22 1115 60.6 -40.8 119.34 11	110 133 154
	JULY 17, 1963	PEDIFIED	CRBITAL ELEPENTS FOR EARTH SATELLITE 1960 101A 1	
1 39.5 257.98 47. 3 34.5 287.08 . 45. 5 29.6 316.19 . 40. 7 24.6 345.29 35. 9 19.7 14.35 30. 11 14.7 43.50 20. 13 9.7 72.60 0. 15 4.8 101.70 -20. 16 59.8 130.81 -30. 18 54.9 159.91 -35. 20 49.9 189.01 -40. 22 44.9 218.12 -45.	.0 21.8 -61.02 665 72.2 .0 18.1 -45.76 674 60.7 .0 15.3 -36.10 685 54.0 .0 12.8 -28.73 695 49.4 .0 8.4 -17.38 736 43.7 . 0. 0. 832 39.9 .0 -8.8 17.28 950 43.6 .0 -13.8 28.50 1014 49.3 .0 -16.6 35.77 1047 53.9 .0 -19.8 45.31 1082 60.6	26.6 -83.30 677 90.0  31.3 -105.54 702 107.8  35.1 -120.78 732 119.3.  38.0 -13C.42 760 126.0.  40.6 -137.76 788 130.6.  45.2 -149.06 845 136.3.  54.0 -166.34 960 140.2.  -51.9 147.36 -1070 136.5  -46.7 136.20 1116 130.7  ECCENTRIC RACIUS OF	CE TIME 1963 Y 7 H & D 1 H 11.12 M UT  IICN 47.28 CEG.  NG NGCE (LONG.) 203.62 CEG. WEST  NEEP INTERVAL ONE DAY -16.95 MIN.  I CF PERIGEE 32.13 DEG.  IE OF CHANGE 0.30925 DEG. PER PERIOD  STIC PERIOD 115.158 MIN.  IE CF CHANGE -0.00014 MIN. PER PERIOD  ICITY 0.05011  GF PERIGEE 4627.5 MILES  CF APCGEE 5115.7 HILES	

-35.8 104.40 1160 107.9

-30.0 82.42 1151 90.0

22 44.9 218.12 -45.0 -24.3 60.39 1120 72.10

-47.5 -30.0 82.38 1151 90.0

RADIUS CF APCGEE 5115.7 HILES

READ-IN EXPECTED

ASCENDING NODE (R.A.) 97.29 DEG.

RATE CF CHANGE -0.10 HILES PER CAY

LATITUCE OF PERIGEE 23.00 DEG.

RATE CF CHANGE -3.30358 DEG. PER CAY

HT. BEAR. (HI) (N-E)

673 90.0 694 107.8 722 119.30

748 126.0° 775 130.6° 830 136.3°

944 140.20 1057 136.4 11 07 130.7 1128 126.2 1147 119.4 1160 107.9 11 56 90 . C

670 90.0 687 107.8 712 119.30 736 126.0. 761 130.60 814 136.30 721 146.20 1043 116.4 1095 130.7 1119 176.2 1140 119.4

1158 107.9

669 90.0 681 161.1 703 117.3 725 126.0. 749 130.60 799 136.30 911 146.10 1029 136.4 1084 130.7 1110 126.1 1133 119.4 1154 107.9 1161 90.0